

Table of Contents: Volume 5 (1990)

Number 1

Editorial	<i>T.G. Dietterich</i>	5
Extending Domain Theories: Two Case Studies in Student Modeling	<i>D. Sleeman, Haym Hirsh, Ian Ellery and In-Yung Kim</i>	11
Acquiring Recursive and Iterative Concepts with Explanation-Based Learning	<i>Jude W. Shavlik</i>	39
Boolean Feature Discovery in Empirical Learning	<i>Giulia Pagallo and David Haussler</i>	71
A Necessary Condition for Learning from Positive Examples	<i>Haim Shvayster</i>	101

Number 2 (Special Issue on Computational Learning Theory)

Introduction	<i>L. Pitt</i>	117
Negative Results for Equivalence Queries	<i>D. Angluin</i>	121
Polynomial Time Learnability of Simple Deterministic Languages	<i>H. Ishizaka</i>	151
Learning Nested Differences of Intersection-Closed Concept Classes	<i>D. Helmbold, R. Sloan and M.K. Warmuth</i>	165
The Strength of Weak Learnability	<i>R.E. Schapire</i>	197

Number 3

Editorial	<i>P. Langley</i>	233
Learning Logical Definitions from Relations	<i>J.R. Quinlan</i>	239
Empirical Learning as a Function of Concept Character	<i>L. Rendell and H. Cho</i>	267
The Problem of Expensive Chunks and its Solution by Restricting Expressiveness	<i>M. Tambe, A. Newell and P.S. Rosenbloom</i>	299

Number 4 (Special Issue on Genetic Algorithms)

Introduction	<i>K. De Jong</i>	351
Learning Sequential Decision Rules Using Simulation Models and Competition	<i>J.J. Grefenstette, C.L. Ramsey and A.C. Schultz</i>	355
CSM: A Computational Model of Cumulative Learning	<i>H.H. Zhou</i>	383
Probability Matching, the Magnitude of Reinforcement, and Classifier System Bidding	<i>D.E. Goldberg</i>	407
Empirical Learning Using Rule Threshold Optimization for Detection of Events in Synthetic Images	<i>D.J. Montana</i>	427